



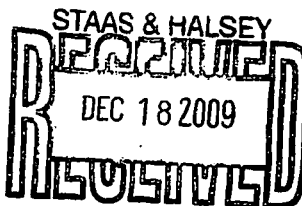
UNITED STATES PATENT AND TRADEMARK OFFICE

Reason For Allowance: 3-16-10
Issue Fee Due: 3-16-10
Pub. Fee

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NOTICE OF ALLOWANCE AND FEE(S) DUE

21171 7590 12/16/2009
STAAS & HALSEY LLP
SUITE 700
1201 NEW YORK AVENUE, N.W.
WASHINGTON, DC 20005



EXAMINER	
PESIN, BORIS M	
ART UNIT	PAPER NUMBER
2174	
DATE MAILED: 12/16/2009	

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/722,186	11/26/2003	Shouta Kamasaki	1720.1006	7929

TITLE OF INVENTION: INPUT OF INFORMATION USING A PLURALITY OF SCREENS IN COMBINATION WITH DISPLAY OF KEYS WITH COLORS, DISPLAY OF INFORMATION AND SYSTEM USING THEM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/16/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: **Mail** Mail Stop ISSUE FEE
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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

21171 7590 12/16/2009

STAAS & HALSEY LLP
SUITE 700
1201 NEW YORK AVENUE, N.W.
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I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/722,186	11/26/2003	Shouta Kamasaki	1720.1006	7929

TITLE OF INVENTION: INPUT OF INFORMATION USING A PLURALITY OF SCREENS IN COMBINATION WITH DISPLAY OF KEYS WITH COLORS, DISPLAY OF INFORMATION AND SYSTEM USING THEM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/16/2010

EXAMINER	ART UNIT	CLASS-SUBCLASS
PESIN, BORIS M	2174	715-773000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.563).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,
- (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1	_____
2	_____
3	_____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.111. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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10/722,186	11/26/2003	Shouta Kamasaki	1720.1006	7929
21171	7590	12/16/2009	EXAMINER	
STAAS & HALSEY LLP SUITE 700 1201 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005			PESIN, BORIS M	
			ART UNIT	PAPER NUMBER
			2174	
DATE MAILED: 12/16/2009				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 459 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 459 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability	Application No.	Applicant(s)	
	10/722,186	KAMASAKI ET AL.	
	Examiner	Art Unit	
	BORIS PESIN	2174	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--
 All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 8/17/2009.
2. ☒ The allowed claim(s) is/are 1-9, 13, 14 and 19.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. <input type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____ 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. <input type="checkbox"/> Notice of Informal Patent Application 6. <input type="checkbox"/> Interview Summary (PTO-413), Paper No./Mail Date _____ 7. <input type="checkbox"/> Examiner's Amendment/Comment 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance 9. <input type="checkbox"/> Other _____
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Allowable Subject Matter

Claims 1-9, 9-14, and 19 are allowed.

The following is an examiner's statement of reasons for allowance:

Re claims 1, 4-6, 8-9. prior arts do not teach or suggest the combination of a touch-panel keyboard with the display part displaying first and second screens, displaying a plurality of sort keys and one first key or a plurality of first keys, switching the first screen to the second screen in response to an operation of one sort key of the plurality of sort keys, with changing the color of said one first key or said plurality of first keys on the first screen to colors different from the color of said one first key or said plurality of first keys, on the second screen and displaying said one second key or said plurality of second keys displayed correspondingly to the operated sort key with the same color as the color of the operated sort key on the second screen.

Re claims 2, 3, 7, prior arts do not teach or suggest the combination of a touch-panel keyboard with the display part displaying first and second screens, displaying a plurality of sort keys and one first key or a plurality of first keys, the display control part setting the first and second screens on the display part, displaying the plurality of sort keys having different colors and said one first key or said plurality of first keys which are the same color as the color of the sort keys correspondingly to the plurality of sort keys, switching the first screen to the second screen in response to an operation of one sort key of the plurality of sort keys, and displaying said one second key or said plurality of second keys displayed correspondingly to an operated sort key with the same color as the color of the operated sort key on the second screen.

Re claims 13. 14, prior arts do not teach or suggest the combination of a display method of a touch-panel keyboard displaying the first screen, displaying a plurality of sort keys having different colors and one first key or said plurality of first keys which are the same color as the color of the sort keys, switching the first screen to the second screen in response to an operation of one sort key of the plurality of sort keys, and displaying one second key or a plurality of second keys displayed correspondingly to an operated sort key with the same color as the color of the operated sort key on the second screen.

Re claim 19 prior arts do not teach or suggest the a display screen, comprising: a first sort key having a first color and second sort key having a second color; a first set of keys corresponding to the first sort key and having the first color; and a different set of keys from the first set of keys, corresponding to the second sort key and having the second color; and a second display screen switched to be displayed from the first display screen when the first sort key of the first display screen is selected and comprising: the first and second sort keys having the first and second colors, respectively; the first set of keys corresponding to the selected first sort key and having a color different from the first color; and a second set of keys corresponding to the selected first sort key and having the first color.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BORIS PESIN whose telephone number is (571)272-4070. The examiner can normally be reached on Monday-Friday except every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dennis Chow can be reached on (571)272-7767. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Boris Pesin/
Primary Examiner, Art Unit 2174

ALLOWED CLAIMS

1. A touch-panel keyboard including a display part having a touch panel and a display control part that controls the display part by sending and receiving information with the display part, comprising:

the display part, responsive to the display control part, displaying first and second screens, displaying a plurality of sort keys and one first key or a plurality of first keys on the first screen, and displaying one second key or a plurality of second keys on the second screen,

the display control part setting the first and second screens on the display part, displaying the plurality of sort keys having different color and said one first key or said plurality of first keys which are the same color as the color of the sort keys correspondingly to the plurality of sort keys on the first screen of the display part, switching the first screen to the second screen in response to an operation of one sort key of the plurality of sort keys, displaying one key or a plurality of keys out of said one first key or said plurality of first keys displayed on the first screen, corresponding to an operated sort key in the plurality of sort keys, with changing the color of said one first key or said plurality of first keys on the first screen to color different from the color of said one first key or said plurality of first keys, on the second screen and displaying said one second key or said plurality of second keys displayed correspondingly to the operated sort key with the same color as the color of the operated sort key, on the second screen.

2. A touch-panel keyboard including a display part having a touch panel and a display control part that controls the display part by sending and receiving information with the display part, comprising:

the display part, responsive to the display control part, displaying first and second screens, displaying a plurality of sort keys and one first key or a plurality of first keys on the first screen, displaying one second key or a plurality of second keys on the second screen, and providing detection means that detects a position of the plurality of sort keys, said one first key or said plurality of first keys and said one second key or said plurality of second keys,

the display control part setting the first and second screens on the display part, displaying the plurality of sort keys having different color and said one first key or said plurality of first keys which are the same color as the color of the sort keys correspondingly to the plurality of sort keys on the first screen of the display part, switching the first screen to the second screen based on a detection output of the detection means in response to an operation of one sort key of the plurality of sort keys, and displaying said one second key or said plurality of second keys displayed correspondingly to an operated sort key with the same color as the color of the operated sort key, on the second screen.

3. A touch-panel keyboard including a display part having a touch panel and a display control part that controls the display part by sending and receiving information with the display part, comprising:

the display part, responsive to the display control part, displaying first and second screens, displaying a plurality of sort keys and one first key or a plurality of first keys on the first screen, displaying one second key or a plurality of second keys on the second screen, and providing detection means that detects a position of the plurality of sort keys, said one first key or said plurality of first keys and said one second key or said plurality of second keys,

the display control part setting the first and second screens on the display part, displaying the plurality of sort keys, representative of a group of articles, which have different color, and said one first key or said plurality of first keys which are provided for every one or every plurality of articles sorted to the group of articles and have the same color as the color of the plurality of sort keys, on the first screen of the display part, switching the first screen to the second screen based on a detection output of the detection means in response to an operation of one sort key of the plurality of sort keys, and displaying said one second key or said plurality of second keys, representative of articles displayed with the same colors as the color of an operated sort key correspondingly to the operated sort key, on the second screen.

4. A touch-panel keyboard according to Claim 1, further comprising a screen switching key provided on the second screen for switching the second screen to the first screen.

5. A touch-panel keyboard according to Claim 1, wherein, when switching to the second screen, one key or a plurality of keys out of said one first key or said plurality of first keys, which are displayed on the first screen but do not correspond to an operated sort key of the plurality of sort keys, are erased on the second screen.

6. A touch-panel keyboard according to Claim 1, wherein, when switching to the second screen, one key or a plurality of keys in said one first key or said plurality of first keys displayed on the first screen, corresponding to an operated sort key of the plurality of sort keys, are displayed on the second screen at a position or positions common to that or those on the first screen.

7. A touch-panel keyboard including a display part having a touch panel and a display control part that controls the display part by sending and receiving information with the display part, comprising:

the display part, responsive to the display control part, displaying first and second screens, displaying a plurality of sort keys and one first key or a plurality of first keys on the first screen, and displaying one second key or a plurality of second keys on the second screen,

the display control part setting the first and second screens on the display part, displaying the plurality of sort keys having different color and said one first key or said plurality of first keys which are the same color as the color of the sort keys correspondingly to the plurality of sort keys on the first screen of the display part, switching the first screen to the second screen in response to an operation of one sort key of the plurality of sort keys, displaying one key or a plurality of keys out of said one first key or said plurality of first keys displayed on the first screen, corresponding to an operated sort key in the plurality of sort keys, with different brightness and the same color as said one first key or said plurality of first keys on the first screen, on the second screen, and displaying said one second key or said plurality of second keys displayed correspondingly to the operated sort key with the same color as the color of the operated sort key, on the second screen.

8. A touch-panel keyboard according to Claim 1, wherein key areas of said one first key or said plurality of first keys having the same color are set on the first or second screen, and said one second key or said plurality of second keys having the same color are disposed adjacent to the key areas of said one first key or said plurality of first keys.

9. A touch-panel keyboard according to Claim 1, wherein said one second key or said plurality of second keys, which are displayed on the second screen correspondingly to the operated sort key, are displayed with the same color as the color of the operated sort key while changing the brightness thereof.

13. A display method of a touch-panel keyboard that controls a display of a display part by sending and receiving information with the display part having a touch panel, comprising: providing first and second screens for the display part, and displaying the first screen on the display part;

displaying a plurality of sort keys having different color and one first key or a plurality of first keys which are displayed with the same color as the color of the sort keys correspondingly to the sort keys, on the first screen;

switching the first screen to the second screen in response to an operation of one sort key of the plurality of sort keys displayed on the first screen; and

displaying one key or a plurality of keys out of said one first key or said plurality of first keys displayed on the first screen, corresponding to an operated sort key of the plurality of sort keys, with changing the color of said first key or said plurality of first keys to color different from the color on the first screen and displaying one second key or a plurality of second keys displayed with the same color as the color of the operated sort key correspondingly to the operated sort key, on the second screen.

14. A display method of a touch-panel keyboard that controls a display of a display part by sending and receiving information with the display part having a touch panel, comprising:

providing first and second screens for the display part, and displaying the first screen on the display part;

displaying a plurality of sort keys, representative of a group of articles, which have different color, and one first key or a plurality of first keys which are provided for every one or every plurality of articles sorted to the group of articles and have the same color as the color of the sort keys, on the first screen;

switching the first screen to the second screen in response to an operation of one sort key of the plurality of sort keys; and

displaying one key or a plurality of keys out of said one first key or said plurality of first keys displayed on the first screen, corresponding to an operated sort key of the plurality of sort keys, with changing the color of said one first key or said plurality of first keys to color different from the color on the first screen, and displaying one second key or a plurality of second keys displayed with the same color as the color of the operated sort key in response to the plurality of operated sort keys, on the second screen.

19. A display having a touch panel, comprising:
- a first display screen, comprising:
 - a first sort key having a first color and second sort key having a second color;
 - a first set of keys corresponding to the first sort key and having the first color; and
 - a different set of keys from the first set of keys, corresponding to the second sort key and having the second color; and
 - a second display screen switched to be displayed from the first display screen when the first sort key of the first display screen is selected and comprising:
 - the first and second sort keys having the first and second colors, respectively;
 - the first set of keys corresponding to the selected first sort key and having a color different from the first color; and
 - a second set of keys corresponding to the selected first sort key and having the first color.